

BenQ DC E800
Digital Camera
User Manual

Welcome

Preface

About this Manual

This manual is designed to assist you in using your new digital camera. All information presented is as accurate as possible but is subject to change without notice.

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Taking care of your camera

- Do not use your camera in the following environmental range: temperature below 0°C or above 40°C.
- Do not use or store your camera in the environments listed below:
 - Direct sunlight
 - High and dusty places
 - Next to an air conditioner, electric heater or other heat sources
 - In a closed car that is in direct sunlight
 - Unstable locations
- If your camera becomes wet, wipe it with a dry cloth as soon as possible.
- Salt or seawater may cause severe camera damage.
- Do not use solvents, such as alcohol, to clean your camera.
- If the lens is dirty, use a lens brush or soft cloth to clean the lens. Do not touch the lens with your fingers.
- To prevent electric shock, do not attempt to disassemble or repair your camera by yourself.
- Water may cause a fire or electric shock. Therefore, store your camera in a dry place.
- Do not use your camera outdoors when it is raining or snowing.
- Do not use your camera in or near water.

- If a foreign substance or water gets in your camera, please turn the power off immediately and remove the batteries. Remove the foreign substance or water, and send it to the maintenance center.
- Transfer the data to the computer as soon as possible to avoid losing your images and / or video clips.
- Disposal of Waste Electrical and Electronic Equipment by users in private households in the European Union.



This symbol on the product or on the packaging indicates that this can not be disposed of as household waste. You must dispose of your waste equipment by handing it over to the applicable take-back scheme for the recycling of electrical and electronic equipment. For more information about recycling of this equipment, please contact your city office, the shop where you purchased the equipment or your household waste disposal service. The recycling of materials will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and environment.

CE Regulatory Notice

Hereby, BenQ Corp. declares under our responsibility that the product is in conformity with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating, Electromagnetic Compatibility Directives (89/336/EEC, 92/31/EEC) and Low Voltage Directive (73/23/EEC).

A "Declaration of Conformity" in accordance with the above Directives has been made and is available from BenQ Corp. upon request.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Trademark Recognition

Windows 2000/XP/Vista are registered trademarks of Microsoft Corporation in the United States and/or other countries. Windows is an abbreviated term referring to the Microsoft Windows Operation System. Adobe is a trademark of Adobe Corporation. ArcSoft is the trademark of ArcSoft System, Inc. All other companies or product names are trademarks or registered trademarks of their respective companies.

Safety and Handling Precautions

Camera Information

- Do not take apart or attempt to service the camera yourself.
- Do not expose the camera to moisture, or extreme temperatures.
- Allow the camera to warm up when moving from cold to warm temperatures.
- Do not touch the camera lens.
- Do not expose the lens to direct sunlight for extended periods.
- Do not use abrasive chemicals, cleaning solvents or strong detergents to clean the product. Wipe the product with a slightly damp soft cloth.

Battery Information

- Turn off the camera before installing or removing the battery.
- Use only the type of battery. Using other types of battery may damage the equipment and invalidate the warranty.
- Ensure that the Li-ion battery is inserted into the product with correct polarity. Incorrect polarity may damage the product or cause fire.
- Download all pictures and remove the battery from the camera if you are going to store the camera for long periods.

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Introduction

Congratulations on the purchase of your new digital camera. This manual provides step-by-step instructions on how to use your camera, and is intended for your reference only.

System Requirements

In order to get the most out of your camera, your computer must meet the following system requirements:

- OS: Windows 2000/XP/Vista
- Memory: 64MB or above
- HDD space: 128 MB or above
- USB port

Package Contents

Check the contents of your camera package. It should contain:

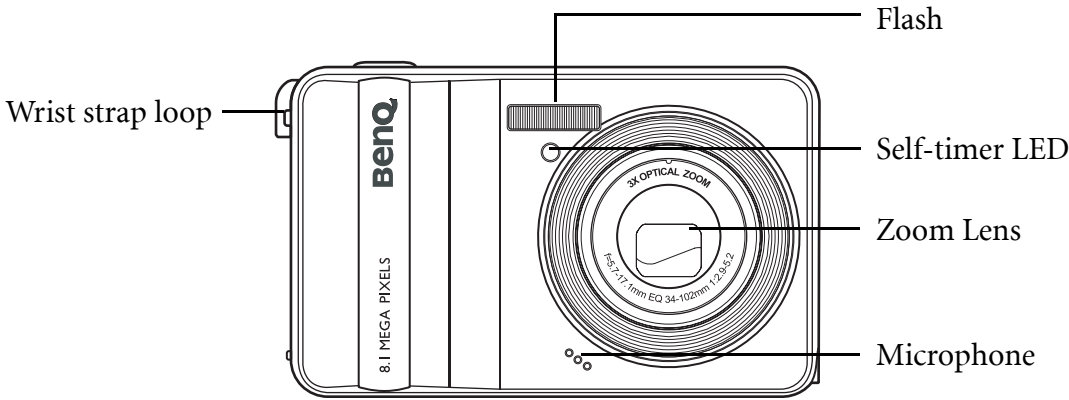
- Digital camera
- USB/AV 3-in-1 cable
- Wrist strap
- One Li-ion battery
- Camera pouch
- Quick start guide
- Bundled AP-CD (Application Software, User's Manual)

Main Features

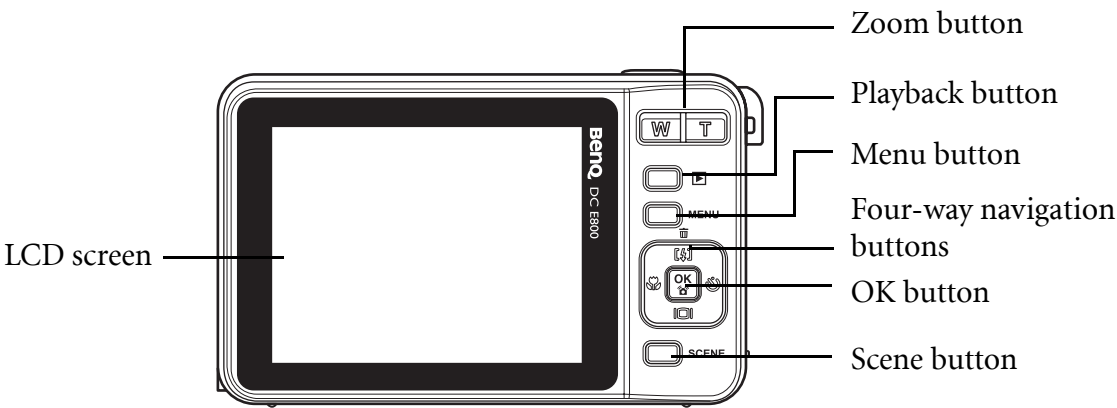
- 8.1 mega pixels resolution
- 15x zoom (Up to 3x optical zoom and 5x digital zoom)
- 1/2.5 inch CCD image sensor
- 2.7 inch TFT LCD monitor
- 10 MB internal flash memory with optional external SD/SDHC card (supported up to 8G)
- Sleek and slim design
- Easy-to-use button interface
- PictBridge compatibility
- Slideshow feature to review your pictures and movies
- A/V output to view your pictures and movies on your TV
- USB port to transfer photos and movies to your PC

Camera Views

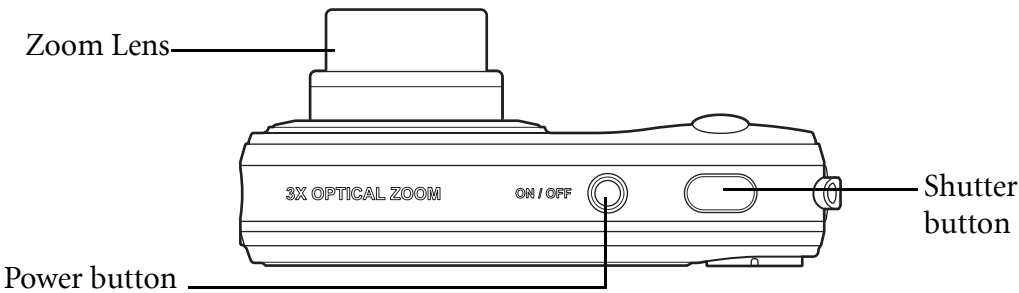
Front View



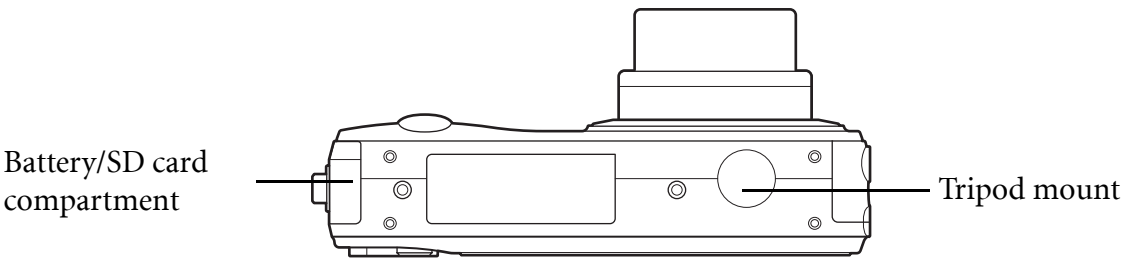
Back View



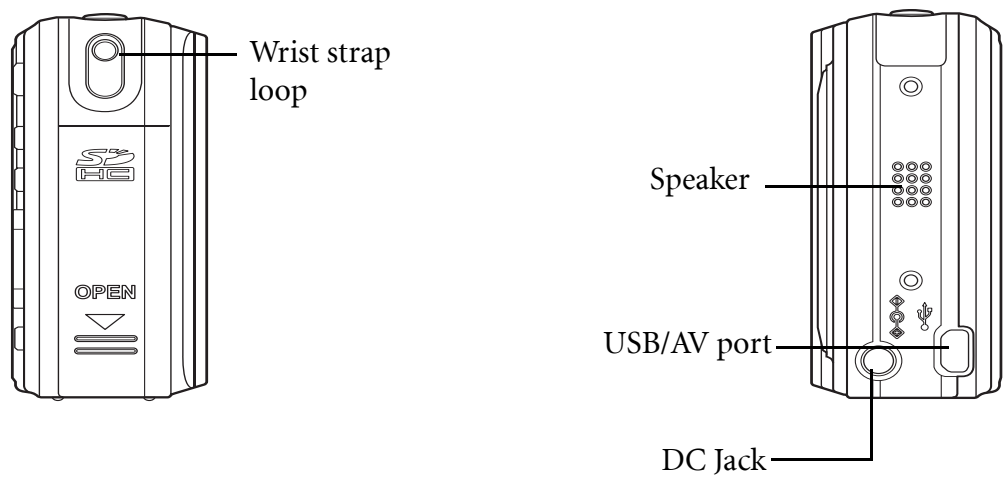
Top View



Bottom View



Left / Right View




LED Indicators

LED	LED Status	Camera Status
Power/Flash LED	Off	Power Off.
	Blue (steady)	Ready to take pictures.
	Blue (blinking)	Camera busy.
Self-timer LED/ Assist Lamp	Off	Self-timer off.
	Red (blinking) (1Hz)	Self-timer count down, flashes lasting for 8 seconds.
	Red (blinking) (4Hz)	Self-timer count down, flashes lasting for 2 seconds.



Camera Buttons


Navigation Buttons

The four-way navigation buttons and the **OK** button allow you to access the various options available from the On Screen Display (OSD) menu. You can configure a wide range of settings to ensure maximum results from your photos and videos.

Icon	Button	Function
OK	OK	<ol style="list-style-type: none"> 1. Confirms a selection when using the OSD menus. 2. In Capture mode: <ul style="list-style-type: none"> • Press to enable AF area selection when Selected Area is selected in Focus Zone submenu 3. In Playback mode: <ul style="list-style-type: none"> • Press to start and pause the video playback • Press to stop the voice memo playback 4. In USB mode: <ul style="list-style-type: none"> • MSDC: N/A • PTP: Press to confirm the selection
	Up/Flash/Delete	<ol style="list-style-type: none"> 1. Moves up in the OSD menus. 2. In Capture mode: <ul style="list-style-type: none"> • Scroll through the flash mode options (Auto, Off, Fill, and Anti Red-eye.) • Press to pan up in AF area selection 3. In Playback mode: <ul style="list-style-type: none"> • Press to pan up in magnify/crop mode • Press to move up in the thumbnail display • Press to delete images. 4. In USB mode: <ul style="list-style-type: none"> • MSDC: N/A • PTP: Press to scroll up through a menu


















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Icon	Button	Function
	Right/Self-timer/ Burst mode	<ol style="list-style-type: none">1. Moves right in the OSD menus.2. In Capture mode:<ul style="list-style-type: none">• Press to scroll through the Self-timer/Multi-Burst mode• Press to pan right in AF area selection3. In Video mode:<ul style="list-style-type: none">• Press to scroll through the Self-timer options4. In Playback mode:<ul style="list-style-type: none">• Press to pan right in magnify/crop mode• Press to move right in the thumbnail display• Press to navigate to next image in single up• Press to fast forward video playback5. In USB mode:<ul style="list-style-type: none">• MSDC: N/A• PTP: Press to select the next image in This Image submenu
	Down/Screen	<ol style="list-style-type: none">1. Moves down in the OSD menus.2. In Capture mode:<ul style="list-style-type: none">• Press to turn off extra icons on the LCD screen, press again to turn all icons back on the LCD screen• Press to pan down in AF area selection3. In Video mode:<ul style="list-style-type: none">• Press to turn off extra icons on the LCD screen, press again to turn all icons back on the LCD screen4. In Playback mode:<ul style="list-style-type: none">• Press to pan down in magnify/crop mode• Press to move down in the thumbnail display• Press to show the file information5. In USB mode:<ul style="list-style-type: none">• MSDC: N/A• PTP: Press to scroll down through a menu


Icon	Button	Function
	Left/Macro	<ol style="list-style-type: none"> 1. Moves left in the OSD menus. 2. Goes up to the previous level in the OSD menus. 3. In Capture mode: <ul style="list-style-type: none"> • Press to enable Macro mode. Macro icon displays on the LCD screen • Press to pan left in AF area selection 4. In Playback mode: <ul style="list-style-type: none"> • Press to pan left in magnify/crop mode • Press to move left in the thumbnail display • Press to navigate to previous image in single up • Press to fast rewind video playback 5. In USB mode: <ul style="list-style-type: none"> • MSDC: N/A • PTP: Press to select the previous image in This Image submenu

The Scene Button

The camera is equipped with a convenient **SCENE** button that takes you to the **Scene Menu** where you can scroll between different modes and choose different scene options. Use the **Up/Down** navigation buttons to scroll and use the **OK** button to select. Use the **SCENE** button to:


Mode Type	Icon	Mode Type	Icon
Auto		Museum	
P-Mode (Program Mode)		Snow	
Smile Catch		Sunset	
Portrait		Fireworks	
Night Portrait		Party	
Landscape		Beach	
Sport		Text	
Night Landscape		Video	
Backlight			

Function Buttons

Icon	Button	Function
MENU	Menu	Press to display the Menu options.
	Playback	Press to review photos/videos clips saved in the internal memory or on the memory card.
T	Zoom in	<p>In Capture mode:</p> <ul style="list-style-type: none"> • Press to zoom in on subject to be taken <p>In Playback mode:</p> <ul style="list-style-type: none"> • Press to zoom in on saved photos
W	Zoom out	<p>In Capture mode:</p> <ul style="list-style-type: none"> • Press to zoom out from the subject to be taken <p>In Playback mode:</p> <ul style="list-style-type: none"> • Press to zoom out of saved photos • Press to view thumbnails of all current saved media

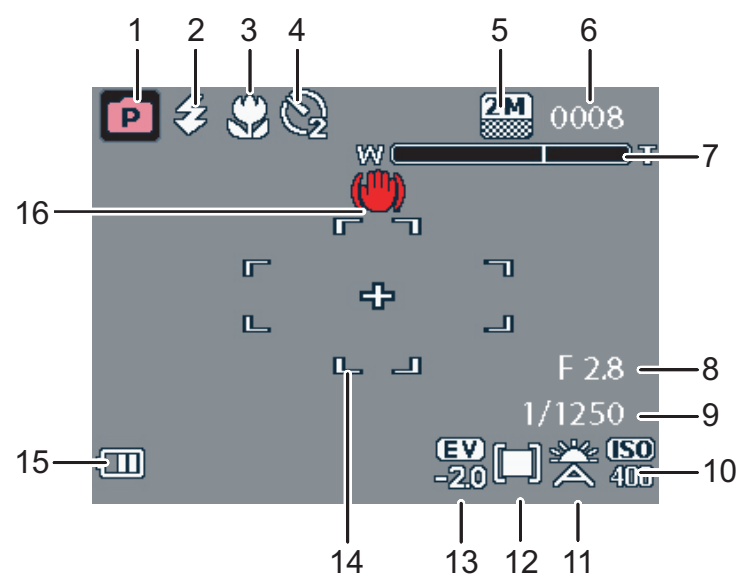
LCD screen

The high resolution 2.7" TFT LCD screen shows all important information regarding camera settings as well as the visual image for your photo or video.

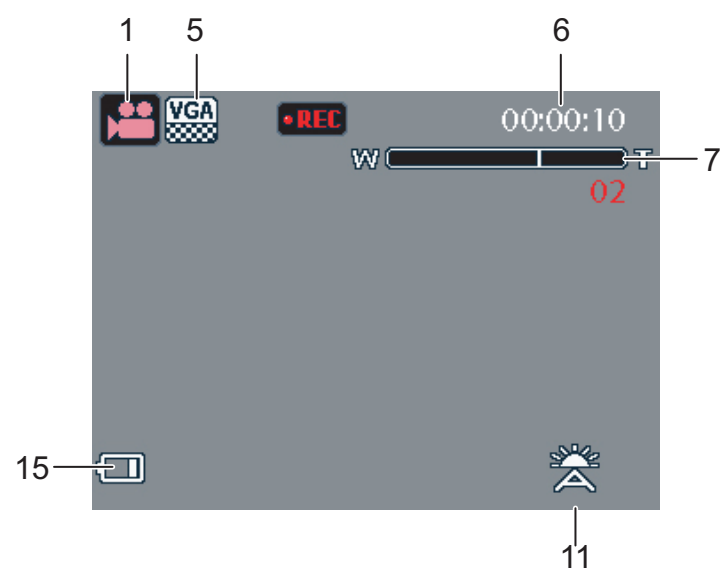
Use the **SCENE** button to switch between screen modes. Press the **Down/Screen**  button to switch between a **Full** display (all icons are displayed), or a **Simple** display (only mode icon and focus area are shown while other icons are hidden).

Capture/Video Mode Display


















Capture Mode



Video Mode






















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No.	Name	Scene		Icon
1	Scene indicator	Auto		
		P-Mode		
		Smile Catch		
		Portrait		
		Night Portrait		
		Landscape		
		Sport		
		Night Landscape		
		Backlight		
		Museum		
		Snow		
		Sunset		
		Fireworks		
		Party		
		Beach		
		Text		
		Video		

2	Flash	Auto Flash		
		Flash Off		
		Flash On		
		Anti Red-eye		
3	Macro indicator	Macro Mode		
4	Self-timer/ Burst mode	M-Burst		
		Self Timer	2 Seconds	
			10 Seconds	
5	Image Resolution/ Image Quality	8M		
		3:2		
		16:9		
		5M		
		3M		
		2M		
		VGA		
6	Image Counter	Capture Mode	Quantity	0008
		Video Mode	Timer	00:00:00
7	Zoom Bar	-		
8	Aperture Value	-		F2.8
9	Shutter Speed	-		1/1600

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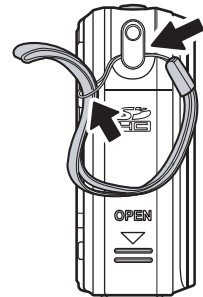
10	ISO Speed	Auto		
		ISO 100		
		ISO 200		
		ISO 400		
		ISO 800		
		ISO 1600		
11	White Balance	Auto		
		Sunny		
		Tungsten		
		Fluorescent		
		Cloudy		
12	AE Metering	Matrix		
		Spot		
		Average		
13	EV Compensation	-		-2.0EV
14	AF Frame	-		-
15	Battery Indicator	Battery level: full		
		Battery level: 2/3 left		
		Battery level: 1/3 left		
		Battery level: low		
16	Camera Steady Warning	-		

Camera Setup

Attaching the Wrist Strap

Follow these instructions to attach the wrist strap to your camera to facilitate easy carrying:

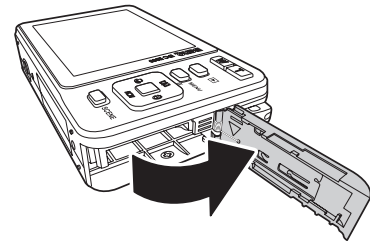
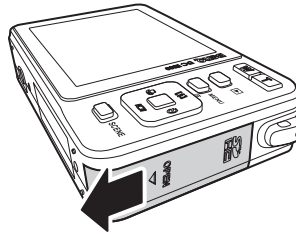
1. Insert the short loop of the strap in the strap eyelet.
2. String the larger loop of the strap through the short loop and pull tight to attach the strap to the camera.



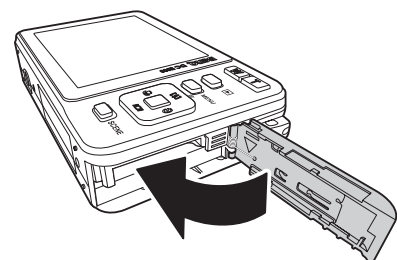
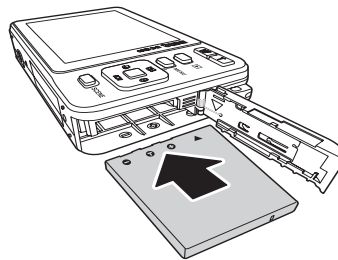
Inserting the Battery

Follow these instructions to insert the Li-ion battery into the battery compartment.

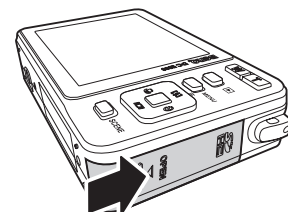
1. Open the battery compartment on the right side of the camera.



2. Insert the battery into the battery compartment observing the correct polarity.



3. Close the battery compartment.



Note:

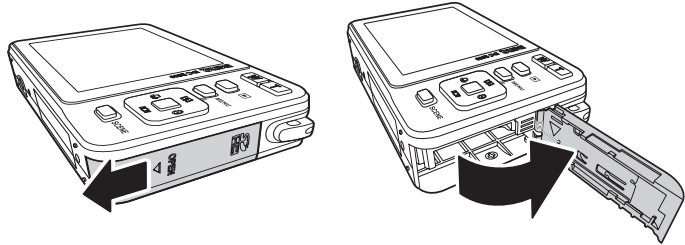
The Li-ion battery should be fully charged before using for the first time.

Inserting an SD/SDHC Memory Card

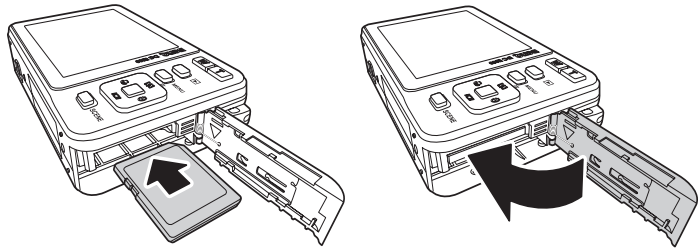
The camera features 10 MB internal flash memory but you may also use an optional SD/SDHC memory card for additional storage.

Follow these instructions to insert the SD/SDHC card.

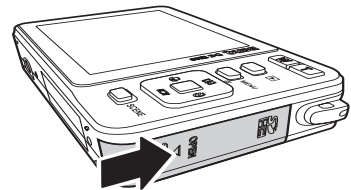
1. Open the battery compartment on the right side of the camera.



2. Insert the SD/SDHC card into the memory card slot as shown.



3. Close the battery compartment.



To remove the SD/SDHC card, gently push the card until it pops out. Pull out the card carefully.

Turning On

Press and hold the **Power** button to turn on the camera. To turn off the camera, press the **Power** button again.

First Time Use

Press the **Power** button as described in “Turning On”, a BenQ Logo displays on the LCD screen.

If the camera is turned on for the first time, the **Language** menu pops up automatically after powering on the camera.

After the desired language is selected, the **Date and Time** menu pops up. Use the navigation buttons to toggle each field and adjust the value. Press the **OK** button to confirm.

Note:

If the Date and Time is reset (when running out the battery and not in use for a long period), the Date and Time setup screen displays automatically.

Getting Started


Now that you are familiar with the layout of your camera, you are ready to start taking photos and movies.

Taking your First Photo




Taking a photo with the camera is very simple.

Turn the camera on and press the **SCENE** button to access the **Auto**  mode.



1. Frame the shot on the LCD screen and press the **Shutter** button halfway. The camera automatically adjusts the focus and exposure. The focus bracket turns green when ready.
2. Press fully and hold the **Shutter** button to capture the image.

When a camera steady warning icon  appears, hold the camera as still as possible, as a longer exposure time (more than 1/30 second) is required.

Shake Free Function


This function is only available in **Auto**  capture mode. Press the **OK**/ button to enable the Shake Free function, and press again to disable it. An **Shake Free** icon  displays on the LCD screen when the function is activated.

Using Macro Mode

Macro mode is designed for close-up photography and can capture all detail even when your subject is very close to the camera. Press the **Left/Macro**  navigation button. The Macro icon  displays on the LCD screen.

Setting the Flash Mode

You can choose from four flash modes to suit various lighting conditions.

Press the **Up/Flash/Delete**  navigation button to scroll through the four modes on the LCD screen. The flash setting remains the same for subsequent photos until you change it as described above.



Auto flash: The flash fires automatically when needed.



Flash off: The flash is turned off.



Flash on: The flash always fires.



Anti Red-eye: The flash fires 3 times so as to reduce the red-eye effect.

Using the Zoom in/out Function

The camera comes equipped with 3x optical zoom and 5x digital zoom that allows you to zoom in on your subject.






To use the zoom:

1. Press the right side of the **Zoom switch T** to zoom in on your subject.
2. Press the lefts side of the **Zoom switch W** to zoom out from your subject.

Using the Self-timer and Multi-Burst Photography

The camera comes equipped with a self-timer which allows you to take photos after a pre-defined delay. The Multi-Burst photography feature allows you to take multiple consecutive photos by pressing and holding the **Shutter** button. The multi-burst photography feature allows you to take multiple (16) consecutive VGA photos by pressing the **Shutter** button once.

To set the self-timer/Multi-Burst mode:

1. Press the **Right/Self-timer/Multi-Burst mode**  navigation button to cycle through the self-timer ( or ) and Multi-Burst photography options () on the LCD screen.
2. Once you have selected an option, frame and take your shot. In self-timer mode, the icon will flash until the time expires and the photo is taken.
3. After taking a photo, the Self-timer automatically exit. If you want to use these functions for the next photo, press the **Right/Self-timer/Multi-Burst mode**  navigation button again to activate the function.








Setting the Scene Mode

The camera supports various preset modes for shooting in different environments and conditions. Each setting is configured automatically by the camera.

To select scene modes:

Press the **SCENE** button to access **Scene** menu which displays the Scene menu options.

Use the **Up/Down** navigation buttons to scroll through the modes.


- Auto 
- P-Mode 
- Smile Catch 
- Portrait 
- Night Portrait 
- Landscape 
- Sport 
- Night Landscape 

- Backlight 
- Museum 
- Snow 
- Sunset 
- Fireworks 
- Party 
- Beach 
- Text 
- Video 

Press **OK** to confirm your selection.

Using Smile Catch


Smile Catch automatically captures the moment of a smile of your subject.



1. In the REC mode, press the **SCENE** button and select .
 2. The camera is tracking the face of your subject (a white frame shows).
 3. Press the shutter to activate smile tracking, and then release the shutter immediately. The camera now is tracking the smile of your subject (a green frame shows).
 4. Once a smile is detected, the camera instantly takes a picture.
 5. The camera continues to detect smiles and takes more pictures (Step 4 is repeated). To stop the smile tracking at anytime, press the shutter.
- The camera will also automatically stop smile tracking if your subject leaves your composition area.
 - Face tracking (one face only) is always on in the Smile Catch mode.

Recording your First Video

You can also record video clips with the camera.

To record a video clip:

1. Turn the camera on and press the **SCENE** button. Use the **Up/Down** navigation buttons to locate **Video**  mode. Press the **OK** button to select.
2. Frame your subject using the LCD screen and press the **Shutter** button to start recording. The self-timer LED is steady on to indicate recording is in progress.
3. Press the **Shutter** button again to stop recording. If not, recording will continue until all free memory space is used.

4. In playback mode, press the **OK** button to playback the recording. Press the **Up/Flash/**
Delete   navigation button to delete the recording if needed.

Recording Voice Memos

You can add a **1-minute** voice memo to an image right after it's taken.

To record a voice memo:

1. Hold the **Shutter** button to start recording and release the **Shutter** button to stop recording.
2. While recording, the selected image is shown on the LCD screen.
3. The elapsed time screen shows the length of a voice memo.

Note:

A Voice Memo can also be added in Playback mode.

Capture Settings

This section describes the various settings you can modify to get better results when taking photos and video clips.

The Capture Menu

To access the Capture menu:

1. Press the **SCENE** button. Use the **Up/Down** navigation buttons to select **Scene Mode**, except Video.
2. Press the **MENU** button to display menu options.
3. Press the **Up/Down** navigation buttons to highlight an option and press the **OK** button to confirm.

Refer to the following sections for more detailed information about each setting.

Note:

All the options in this section may vary according to the different modes.

Image Resolution

The **Image Resolution** setting refers to the size of the image in pixels. Use the **Up/Down** navigation buttons to select from the options. Seven settings for image resolution are available:

- 8M (3280 x 2460)
- 3:2 (3280 x 2186)
- 16:9 (3280 x 1846)
- 5M (2592 x 1944)
- 3M (2048 x 1536)
- 2M (1600 x 1200)
- VGA (640 x 480)

Image Quality

The **Image Quality** setting refers to the compression ratio of the JPG. The higher the image quality, the less the image compression ratio but more memory space is required. Use the **Up/Down** navigation buttons to select from the options. Three settings for image quality are available:

- Best (default)
- Better
- Good

Focus Zone

The **Focus Zone** setting allows you to select the number of zones the camera will focus on when taking a photo. Use the **Up/Down** navigation buttons to select from the options. Three settings for focus zone are available:

- Multi-Zone (default)
- Center
- Selected Area: The new setting is applied to the Live View image each time the **Up/Down** navigation buttons are pressed. Press the **OK** button to return to the **Capture** menu and save the current setting, which will take effect until it is changed again.

Face Tracking

The Face Tracking enables you to focus on on subject's face automatically. When the subject's face is detected, the green focus frames appear on the LCD screen. Then the camera automatically adjusts the focus point and exposure to the optimized value.

However, when the camera fails to detect your subject's face, the camera will set the focus to **Multi-Zone** with a green or red focus frame.

EV Compensation

The **EV Compensation** menu allows you to adjust the exposure while capturing photos or videos. Use this feature to lighten or darken the image when the brightness between the subject and background is not balanced or when the subject occupies only a small part of the photograph. Use a positive (+) EV compensation for spotlight subjects, especially against dark backgrounds or scenes with low reflectivity, such as green or dark foliage.

Use the **Up/Down** navigation buttons to modify the value. This setting can be modified from -2.0 to +2.0 in a 0.3 increment/decrement.

M-Burst Interval

The **M-Burst Interval** setting allows you to adjust the burst interval when the multi-burst function is enabled. Use the **Up/Down** navigation buttons to select from the options.

- 1/30 Sec (default)
- 1/15 Sec
- 1/7.5 Sec

White Balance

The **White Balance** setting allows you to adjust the camera setting according to the ambient white light when shooting. White balance represents the degree of coolness of the light. If the light has a yellowish or reddish tinge, it is said to be warm; if it has a bluish tinge, it is said to be cool. You can select the setting and preview it on screen before confirming your choice. Use the **Up/Down** navigation buttons to select from the options. Five white balance settings are available:

- Auto (default)
- Sunny
- Tungsten
- Fluorescent
- Cloudy

ISO Speed

The **ISO Speed** setting allows you to adjust the CCD light-sensitivity. Use the **Up/Down** navigation buttons to select from the options. Six ISO settings are available:

- Auto (default)
- ISO 100: For outdoor photography in bright sunlight.
- ISO 200: For outdoor or indoor photography in bright light.
- ISO 400: For indoor photography or low light environments.
- ISO 800: For moving object photography or low light environments without using flash.
- ISO 1600: For moving object photography or low light environments without using flash.

AE Metering

AE Metering allows you to select the area of the subject or frame by which the camera measures light. Use the **Up/Down** navigation buttons to select from the options. Three AE metering settings are available:

- Matrix (default): Camera metering is set for evaluating 16 zones of objects with intelligent weighting in the frame.
- Spot: Camera metering is set for the brightness of a single object in the center of the frame.
- Average: Camera metering is set for the average brightness of objects in the frame.

Color

The **Color** setting allows you to take photos and apply different colors or color tones for an artistic effect. Use the **Up/Down** navigation buttons to select from the options. Four color settings are available:

- Vivid
- Color (default)
- Black & White
- Sepia

Sharpness

The **Sharpness** setting allows you to enhance the finer details of your photos. Use a higher setting for very sharp photos and a lower setting for a soft-toned photo. Use the **Up/Down** navigation buttons to select from the options. Three sharpness settings are available:

- High
- Normal (default)
- Low

Saturation

The **Saturation** setting allows you to adjust the saturation of the colors in your photos. Use a high saturation setting for rich colors and a lower saturation setting for more natural tones. Use the **Up/Down** navigation buttons to select from the options. Three saturation settings are available:

- High
- Normal (default)
- Low

Contrast

The **Contrast** setting allows you to adjust the contrast of your photos. Use the **Up/Down** navigation buttons to select from the options. Three contrast settings are available:


- High
- Normal (default)
- Low

Setup

See “The Setup Menu” on page 31 for more details on the setup menu options.

Video Capture Menu

To access the video menu:

1. Press the **SCENE** button and scroll to **Video**  mode.
2. Press the **MENU** button to display the menu options.
3. Use the **Up/Down** navigation buttons to highlight an option and press the **OK** button to confirm. Refer to the following sections for more detailed information about each setting.

Video Resolution

The **Video Resolution** setting allows you to adjust the resolution at which your videos are recorded. Two video size settings are available:

- 640X480
- 320X240

White Balance

See “White Balance” on page 20 for more details on the setup menu options.

Color

See “Color” on page 20 for more details on the setup menu options.

Saturation

See “Saturation” on page 21 for more details on the setup menu options.

Contrast

See “Contrast” on page 21 for more details on the setup menu options.

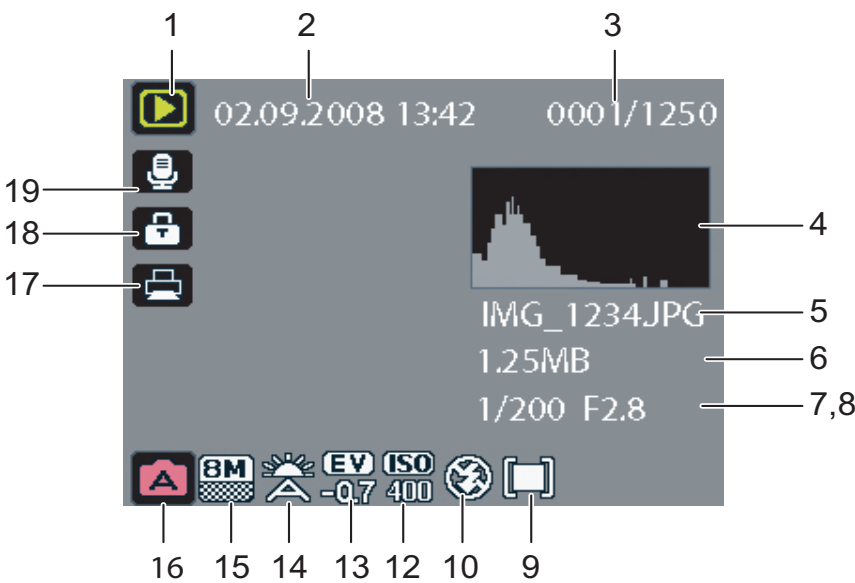
Setup

See “The Setup Menu” on page 31 for more details on the setup menu options.

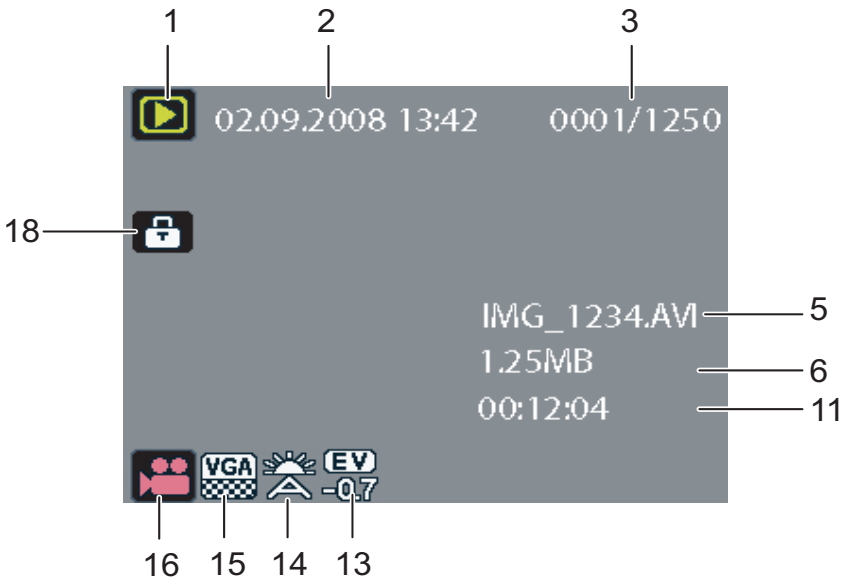
Photo & Video Playback


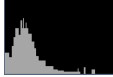









Playback Mode Display

Photo Playback




Video Playback



No.	Name	Icon
1	Playback mode	
2	Date and Time	2005/12/12 00:00:00
3	Quantity	0001/1250
4	Histogram	
5	File Name	Photo mode: IMG_XXXX.JPG Video mode: IMG_XXXX.AVI
6	File Size	1.25MB
7	Shutter speed	1/60
8	Aperture value	F 2.8
9	AE Metering	
10	Flash mode	
11	Recording Time	00:00:00
12	ISO Speed	
13	EV Compensation	-0.7EV
14	White Balance	
15	Image resolution	Photo mode:  Video mode:  640 (640x480), 320 (320x240)
16	Mode icons	Please see “Capture/Video Mode Display” on page 8 for detailed information.
17	DPOF	
18	Protect	
19	Voice memo	


Viewing Photos/Videos on the LCD Screen

To view your photos and video files on the LCD screen:

1. Press the **Playback** button . The most recent photo or video clip is displayed.
2. Use the **Right/Left** navigation buttons to scroll through photos and video clips.
3. Press the **OK** button to begin playback of a video clip.
4. Press the **Left/Right** navigation buttons at any time during playback to skip to the previous/next photo or video.
5. Press the **OK** button and press the **Left/Right** navigation buttons to fast-rewind/fast-forward during video playback.
6. Press the **OK** button at any time during playback to pause the video.
7. After the video clip finishes playing, the LCD screen displays the first frame of the clip.

Viewing M-Burst Photos

To view your multi-burst photos on the LCD screen:

1. Press the **Playback** button . The most recent photo or video clip is displayed.
2. Press the **OK** button first, then use the **Right/Left** navigation buttons to scroll through photos.
3. When reviewing a multi-burst image, it will be displayed from the 1st frame to the 16th frame at 2 frames/per second like a slideshow.
4. To stop the M-Burst slideshow, press the **Left/Right** navigation buttons and skip to the previous/next image.

Listening to Voice Memo

A voice memo plays simultaneously when playing a saved image with voice memo.

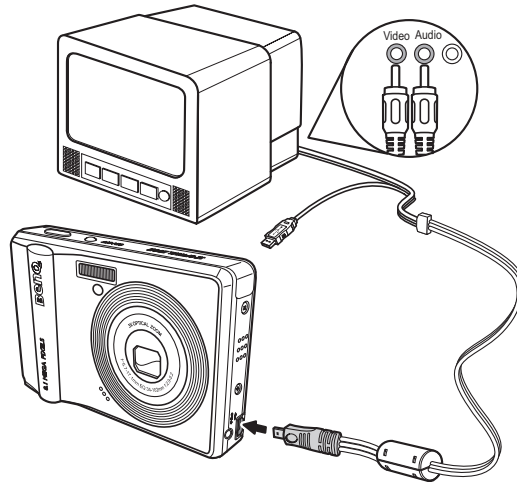
To stop a voice memo while reviewing an image, press the **OK** button.

To skip to previous/next image, press the **Left/Right** navigation buttons.

Viewing Photos/Videos on your TV

To view images stored on the camera on your TV, you must connect via the A/V port on the side of the camera. To connect your camera to a TV:

1. Turn on the camera and make sure that the camera's video out format is set to the same as that of the TV. See "Video Out" on page 32 for more information.
2. Connect the USB/AV 3-in-1 cable to the USB port on the camera.
3. Connect the other end of the cable to the TV's AV input port.



4. The LCD screen turns blank and all images and video clips are displayed on the TV screen. Follow the same steps described in "Viewing Photos/Videos on the LCD Screen" on page 25.

Zooming In During Playback

The camera's zoom feature can also be used during Playback. This allows you to view photos in greater detail.


To zoom in on saved photos:

1. Press on the right side of the **Zoom** button **T** to zoom in and on the left side of the **Zoom** button **W** to zoom out of the photo/video.
2. Use the navigation buttons to pan across the image.
3. When zoomed in on a photo, press the **OK** button to crop the image. When zoomed out to the maximum, the LCD screen will display all photos and videos as a series of thumbnails.

Deleting Photos/Videos

The **Delete** function allows you to remove unwanted files stored on internal memory or a memory card.


To delete a photo/video:

1. In **Playback** mode, press the **Up/Flash/Delete**  navigation button to display the **Delete** menu.
2. Press the **Up/Down** navigation buttons and the **OK** button to select from the three available options:
 - **Cancel**: Select to cancel the action and exit to the main menu.
 - **This Image**: Select to delete the current image.
 - **All Images**: Select to delete all images.

Using the Playback Menu

Access the Playback menu to view further information, configure printing settings, view a slideshow, or delete photos or movies.

To access the Playback menu:

1. Press the **Playback** button .
2. Press the **MENU** button to display the menu options.
3. Use the **Up/Down** navigation buttons to highlight an option and press the **OK** button to confirm.

DPOF

DPOF (Digital Print Order Format) allows you to specify the number of copies of a certain image that you want to print at a later date.

Use this function to tag pictures stored in your memory card with print information. You can tag all pictures to be printed or just the current picture. You can also select how many copies print and whether to include the date and time.

When all images to be printed are tagged, remove the memory card and take it to a photographic shop for printing, or use it with a DPOF compatible printer.

To set DPOF:

1. Press the **MENU** button to select **DPOF** from the menu.
2. Press the **Up/Down** navigation buttons and the **OK** button to select from the available options:
 - **This Image**: Select to print the current image.
 - **All Images**: Select to print all images.
 - **Exit**: Select to exit to the main menu.
3. Use the **Up/Down** navigation buttons to set the number of copies you wish to print.

Slideshow

The **Slideshow** function allows you to view all stored photos in a continuous sequence.

To view a slideshow:

1. Press the **MENU** button to select **Slideshow** from the menu.
2. Press the **Up/Down** navigation buttons and the **OK** button to select from the available options:
 - **Start**: Select to start the slideshow.
 - **Interval**: Select to set the interval time between each photo during the slideshow. Use the **Up/Down** navigation buttons to set a value in seconds. The default setting is 5 seconds.
 - **Loop**: Select to enable/disable a continuous loop of the slideshow. Select **On** or **Off** (default) from the submenu.
 - **Exit**: Select to exit to the main menu.

Resize

The **Resize** function allows you to change the image resolution.

To resize a photo:

1. Press the **MENU** button to select **Resize** from the menu.
2. Press the **Up/Down** navigation buttons and the **OK** button to select the resize ratio you require: 6M, 4M, 2M, 1M and VGA.
3. Select **Exit** to return to the main menu.

Note:

It is only possible to scale-down image resolutions. If the current image resolution is VGA, this menu item is disabled in the Resize submenu. The ratio of the image (4:3, 16:9 or 3:2) remains unchanged after resizing.

- This function only supports native pictures
- Cropped images cannot be resized
- If there is not sufficient storage space, images cannot be resized
- If the SD/SDHC card is locked, images cannot be resized
- VGA images cannot be resized

Rotate

The **Rotate** function allows you to change the orientation of a saved photo.


To rotate an image:

1. Press the **MENU** button to select **Rotate** from the menu.
2. Press the **Left/Right** navigation buttons and the **OK** button to rotate the select image.
 - **OK**: Select to rotate the image.
 - **Exit**: Select to exit to the main menu.

Protect

You can lock a photo or video to protect it from being accidentally erased.

To lock a photo or video:

1. Press the **MENU** button to select **Protect** from the menu.
2. Press the **OK** button to confirm.
3. A key  icon displays at the top of the screen to indicate the photo/video is now locked.

Red-Eye Compensation

The **Red-Eye Compensation** function allows you to perform red-eye reduction on a saved photo.

To remove red-eye from a photo:

1. Press the **MENU** button to select **Red-Eye Compensation** from the menu.
2. The camera starts processing. Press the **Up/Down** navigation buttons and the **OK** button to select from the three available options:
 - New file: Select to save the fixed image to a new file.
 - Overwrite: Select to overwrite the original image.
 - Cancel: Select to discard the changes to the image and return to the main menu.

Note:

1. If the image is protected, the fixed image will be saved as a new file directly without asking.
2. If a failure occurs, the message “Cannot Processing Correctly” appears on the screen.

Move

The **Move** function allows you to move images stored in internal memory to a memory card.

To move an image:

1. Press the **MENU** button to select **Move** from the menu.
2. Press the **Up/Down** navigation buttons and the **OK** button to select from the three available options:
 - This Image: Select to move the current image to a memory card.
 - All Images: Select to move all images to a memory card.
 - Exit: Select to exit to the main menu.

Note:

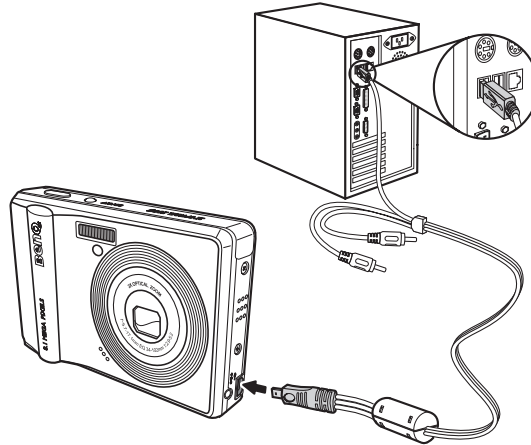
The **Move** function is only available when you choose internal memory as the storage media and an SD card has been inserted into the camera.

Transferring Photos/Videos to your PC

To transfer photos and videos to your PC:

Use the software CD to install the camera driver. Follow the on-screen instructions to complete the installation.

Connect the camera's USB port to a free USB port on your PC using the USB cable.



The camera's internal memory and/or SD/SDHC card appear as removable drives in the file manager. Copy the files from the drives to the directory on your PC.

Use ArcSoft PhotoImpression and ArcSoft VideoImpression (provided on the software CD) to view or edit the photos and videos respectively.

Camera Settings

The Setup Menu

The setup menu, available in capture and playback modes, allows you to configure the camera's general settings according to your preferences.

To access the setup menu:

1. Press the **MENU** button when in **Playback** or any of the capture modes.
2. Select **Setup** from the menu. The submenu appears.
3. Use the **Up/Down** navigation buttons to scroll through the options and press the **OK** button to enter further submenus and to confirm your selection. Refer to the following sections for more detailed information about each setting.


File Number

The **File No.** setting allows you to reset all file numbers assigned to each of the files on your camera. Select **Reset** to reset or **Continue** to set the file numbers in continuous order.

Digital Zoom

The **Digital Zoom** setting allows you to turn the digital zoom function on or off. Select **On** to enable the function or **Off** (default) to disable it.

Quick View

The **Quick View** setting allows you to view the photo that you have just taken. Once you have taken your photo, it displays on the LCD screen. If you are not satisfied with the result, you can press the  button to delete the photo immediately. Select **On** (default) to enable the function or **Off** to disable it.

Note:

The Quick View function is not available in M-Burst modes.

Camera Sound

The **Camera Sound** setting allows you to adjust the camera sound level. Three options are available:

- Off
- Low (default)
- High

Auto LCD Off

The **Auto LCD Off** setting allows you to adjust the length of time that the LCD screen will remain lit before turning off to save battery power. Three options are available:

- Off (default)
- 30 sec
- 1 min

Auto Power Off

The **Auto Power Off** setting allows you to adjust the length of time after which the camera will power down when inactive. Use the **Up/Down** navigation buttons to select from the menu options. Two options are available:

- 5 min (default)
- 2 min

Video Out

The **Video Out** setting allows you to adjust the video output, depending on the type of your TV. Use the **Up/Down** navigation buttons to select from the menu options. Two options are available:

- NTSC (default)
- PAL

USB Mode

The **USB Mode** setting allows you to select the transfer method between your camera and your PC. Two options are available:

- PTP (PictBridge Print): When the camera is connected to a printer by a USB cable which supports Pictbridge, it can directly print images stored on the media. For details on PTP function, please See “PictBridge Print (PTP)” on page 34.
- MSDC (default): The camera is set up to act as a mass storage device, allowing only for transfer of files between your camera and PC.

Date Stamp

The **Date Stamp** setting allows you to adjust the format in which the date will appear on each photo or video. You can also deactivate this function if you wish. Setting a date stamp allows for easy sorting and the date will appear on the photo when printed. Use the **Up/Down** navigation buttons to select from the menu options. Four options are available:

- Off (default)
- YYYY MM DD: year-month-date format
- MM DD YYYY: month-date-year format
- DD MM YYYY: date-month-year format

Date and Time

The **Date and Time** setting allows you to set or adjust the date and time on your camera. To set or adjust the date and time:

- Press the **Left/Right** navigation buttons to select the **Year** field.
- Press the **Up/Down** navigation buttons to adjust the **Year** value.
- In the same way, select the **Month**, **Date**, **Hour** and **Minute** fields and adjust them accordingly.

Language

The **Language** setting allows you to choose which language the OSD menu uses. Scroll down the list and select your language. Use the **Up/Down** navigation buttons to select from the menu options.

Image Storage

The **Image Storage** setting allows you to specify where photos and video clips will be stored. The camera features 10 MB internal memory but you can also insert an SD/SDHC card (See “Inserting an SD/SDHC Memory Card” on page 13 for more details). Two options are available:

- Auto (default): When selected, the camera chooses the storage medium automatically. If an SD/SDHC card is inserted in the camera, all photos and videos are stored on the card. If an external card is not detected, all photos and videos are stored in the internal memory.
- Internal Memory: All photos and videos are stored in the internal memory.

Format

The **Format** setting allows you to erase all data in the internal memory or on the SD/SDHC card. Use the **Up/Down** navigation buttons to select from the menu options. Three options are available:

- Memory Card (default): All data on the SD/SDHC will be formatted.
- Internal Memory: All data in the internal memory will be formatted.
- Exit: Cancel format action.

Reset

The **Reset** setting allows you to reset the camera to the original factory default settings. This means all modifications you have made to the camera settings will be cleared.

Once selected, the **Reset** screen displays a confirmation message. Select **Yes** to proceed with the reset or **Exit** (default) to cancel.

Voice Memo

The **Voice Memo** setting allows you to record a voice memo when a photo is taken. Select **On** to enable the Voice Memo function or **Off** (default) to disable it.

PictBridge Print (PTP)

The **PTP** function allows you to print images captured by the camera directly without connecting the camera to a PC.

If the camera is not connected to a PTP compliant printer, an error message displays on the LCD screen. To enable PTP function, see “USB Mode” on page 32 for detailed information. If the USB mode is not set at PTP, an error message displays on the LCD screen.

When a PTP compliant printer is connected to the camera, the **Printer Connecting** screen displays on the LCD screen. The Print menu pops up automatically.

Use the **Up/Down** navigation buttons to select an option and press the **OK** button to confirm.

Image Storage

See “Image Storage” on page 33 for detailed information.

This Image

Print the selected image with the current setting.

1. Use the **Up/Down** navigation buttons to select **This Image** from the options and press the **OK** button to confirm. Use the **Left/Right** navigation buttons to select previous/next file.
2. Press the **Up/Down** navigation buttons to set the number of copies.
3. Press the **Up/Down** navigation buttons again to select the paper size.
 - Default Size
 - 4” x 6”
 - A4
4. Press the **Up/Down** navigation buttons to Continue or Cancel the action.

Index Print

Use this function to print all images in index format.

1. Press the **Up/Down** navigation buttons to select the Paper size.
 - Default Size
 - A4
2. Press the **Up/Down** navigation buttons to set the number of copies. After the number of copies is set, press the **Up/Down** navigation buttons again to continue or cancel the action.

All Images

Print all images saved in memory.

1. Use the **Up/Down** navigation buttons to select **All Images** from the options and press the **OK** button to confirm.
2. Press the **Up/Down** navigation buttons to set the number of copies.
3. Press the **Up/Down** navigation buttons to select the Paper size.
 - Default Size
 - 4" x 6"
 - A4
4. Press the **Up/Down** navigation buttons to select Continue or Cancel this action.

Specifications

General	Resolution / Image Type	8.1 M Pixels / 1/2.5" CCD
	LCD	2.7" TFT, 230,000 Pixels
	Dimensions	93(W)x58(H)x21.5(D)mm
	Exterior Casing	Plastic Housing
Optics	Aperture	Wide: F2.9 Tele: F5.2
	Optical Zoom	Up to 3x
	Digital Zoom	Up to 5x
	Focal Length	Wide(W): 34mm, Tele(T): 102mm
	Focus Mode	Normal: 60cm to infinity Macro: 10cm ~ 70cm
	Shutter Speed	2 ~ 1/2000 Sec.
	Viewfinder	None
	Field of View	99% by LCD
Camera Features	Auto Power Off / Time Out	Yes
	ISO Equivalent	Auto,ISO100/200/400/800/1600
	Internal Memory	10 MB internal, SD/SDHC removable card slot (supported up to 8G)
	Flash Modes	Auto, Off, On, Anti Red-eye
	Preset Scene	Auto, P-Mode, Smile Catch, Portrait, Night Portrait, Landscape, Sport, Night Landscape, Backlight, Museum,Snow, Sunset, Fireworks, Party,Beach, Text, and Video

Resolution Image	Image File Formats	Still Image: JPEG (Exif2.2)
	Image Quality Mode	Still Image: 8M(3280*2460), 3:2(3280*2186), 16:9(3280*1846), 5M(2592*1944), 3M(2048*1536), 2M(1600*1200), VGA(640*480) Movie Mode: 640x480@15fps, 320x240@30fps
	Quality Levels	Best, Better, Good
Capture Features	DPOF	Version 1.1
	Erase Protection	Yes
	Exposure Compensation	Selectable +/-2.0EV with 0.3 EV steps
	Sharpness	High, Normal, Low
	Color	Vivid, Color, B&W, Sepia
	Metering	Matrix, Spot, Average
	Focus	Multi-Zone Single-Zone: Center, Selected area
	Flash Range	2.5m@wide
	Shake Free	Yes
	Drive Mode	Single Mode, Multi-Burst (VGA@16 shots)
	Quick Delete	Yes
	Quick View	Yes
	Self Timer	2 or 10 seconds
	Playback Magnify	Up to 8X (11 steps)
	White Balance	Auto, Sunny, Tungsten, Fluorescent, Cloudy
Video	Video Out	PAL, NTSC
	Stream to SD/SDHC	Yes
	Speaker	Yes, Mono
	Movie File Format	AVI
	Movie Length	Unlimited as long as space is available on the SD/SDHC card
	Microphone	Yes, Mono

Power	Battery	NP40
Capability	Camera Interface	USB 2.0 full speed
	Host Platform	Windows 2000/XP/Vista
Standards	Operating Temperature	0°C ~ 40°C

Troubleshooting

Problem	Action
Camera does not turn on	<ul style="list-style-type: none"> • The batteries may be exhausted. Charge or replace the batteries. • The batteries are installed incorrectly. Re-insert the batteries observing the correct polarity.
Camera turns off automatically	Press any button to turn on the camera.
LCD turns off automatically	Press any button to turn on the LCD.
Empty battery icon is displayed on the LCD after which camera turns off	Batteries are exhausted. Replace the batteries.
LCD screen displays 'Card Requires Formatting'	Memory card format not recognized. Re-format the memory card.
LCD screen displays 'Card is Full'	Memory card is full. Replace the memory card with a new one or delete unnecessary images from the existing card.
LCD screen displays 'Card is locked'	The card is protected by a protect switch mechanism. Move the switch to the unlock position.
Insufficient memory space to complete request	Insufficient space in memory to rotate an image. Delete unnecessary images.
No image displays on the TV screen	Incorrect TV-out type was selected. Set correct TV-out type to match your TV system.
Insufficient space on the card	Delete unnecessary images.